

NETFLOOR USA®

ECO series

Low Profile Cable Management Access Floor System



Office renovation project site



User Friendly
100% Reusable
100% recyclable

LEED

Compliance
Maximize your LEED Credit Point



NO. 5556

ECO mark
registered

ECO Series

CA600R CA500R CA400R



A manufacturing office, Southeast USA

NetfloorUSA ECO is one of the hottest selling products among NetfloorUSA product family. The system has been widely used for new buildings as well as for renovation and upgrading in many commercial and public institution interiors such as offices, schools, call centers, libraries training classrooms and retail stores.

Since its launch in 1996, millions of square feet of the ECO series have been installed in many areas around the globe including the USA, U.K, Europe, Middle East, Asia, Australia, Brazil, and Chile.

The ECO Series, with its unique cable management capability of low height, durability, and environmental friendliness is popular in the world market. In the rapidly evolving internet and e-commerce age, the ECO series is a perfect fit in nearly any application.

ECO series

Low Profile Cable Management Access Floor System



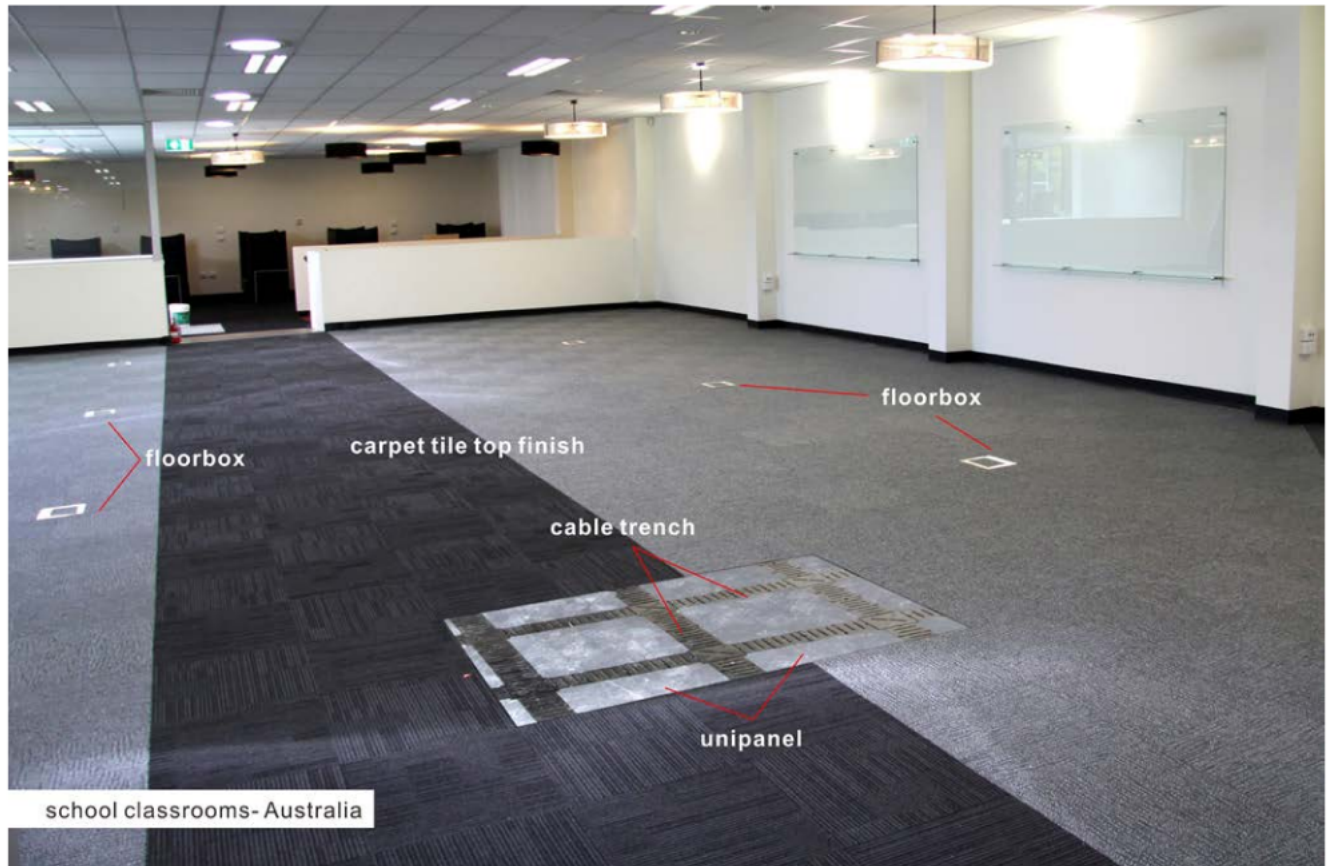
Even high-end spaces, like a museum, can use NetfloorUSA ECO



An airline reservation center uses NetfloorUSA for a reconfigurable call center.

Low-Profile High Capability

CA600R-60mm CA500R-50mm CA400R-40mm



The Unique Grid-Pattern Cable Trench System

Cable Trenches: are formed automatically when installing and connecting Base Connectors to Unipanel.

Width of Cable Trench: 90 mm width cable trenches surrounding every 600 X 600 mm module, form a grid-pattern that facilitates future moves, additions and changes.

High cable management capacity at low-height

System heights: 40 mm, 50 mm, 60mm.

Cable Trench clearance: system height minus 5 mm.

Cables can be routed systematically through the cable trenches, and cavities under the Unipanel providing reserve space for extra distribution.

Free cable extension: Cables extend from cable trenches to connect with service floor boxes, or extend through grommets to connect data and power sockets at partition wall bases, conference table, or workstation desktop locations.

www.NetfloorUSA.com

Rapid Deployment

High Changeability



Besides providing systematic and high cable carrying capacity, the system provides high changeability where cable rerouting and relocation is expected frequently

1. Systems installed without adhesives to the sub floors.
2. At the time of re-location, no damage to sub-floor.
3. Cable routing and re-routing is efficient, neat, and with little interference to surrounding workstations.
4. In most cases, overnight cable re-distribution is possible, without interfering with normal business and customer operations.
5. Minimal costs are incurred during re-layout or re-location.

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Environmental Friendly

The ECO series with its emphasis on being environmentally friendly meets the high standard of Green building materials. The UniPanel (main panel) is made of recycled poly-propylene. All of the main components of ECO series including UniPanel, Base Connector, Cable Trench steel caps are 100% reusable and recyclable.

Using the ECO series for projects can maximize your LEED credit point for both new buildings and old building renovations.

UniPanel (main panel):

Is made of recycled poly-propylene.

100% re-usable:

All components are 100% re-usable.

100% recyclable:

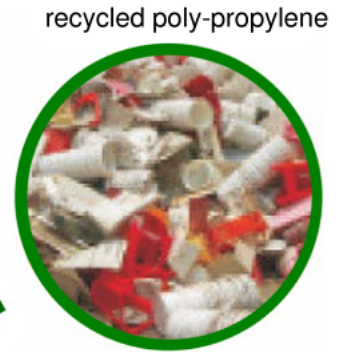
All components of the system are 100% recyclable.



relocation & reuse



new installation



recycled poly-propylene

new product



pre and post
consumer content

Relocation - 100% re-usable

This telecommunications office has used the ECO series for 10 years before redeploying the floor in a new location.



Pack the cable trench
steel caps



Unipanels and steel
caps were packed



Quickly and efficiently
moved out



Transported to the
re-located site

LEED (The Leadership in Energy and Environmental Design) is globally recognized certification program for the design, construction, and operation of environment efficiency buildings. Netfloor ECO series access floor systems meets and surpass the LEED Credit Point standards.

LEED Credit	LEED Requirements	NetfloorUSA System Compliance	LEED Points for Your Project
Materials & Resources Credit 4.2	Use materials with recycled content total of 20%, based on cost of the total value of the materials in the project	ECO series CA600R, CA500R, CA400R recycled contents are greater than 60% of total system material	Contributes to 2 points
Environment Quality Credit 4.1	Low-Emitting Materials: Adhesives & Sealants. Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants	NetfloorUSA ECO series is designed to install without adhesive on the sub-floors, unlike traditional access floor systems which requires adhesives to be applied to the sub-floor	Contributes to 1 points



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LEED Compliance
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100% Recyclable - 100% Recyclable - 100% Recyclable



Recycle from job site



Crushing and Processing



Crushed Poly-propylene



Packed and prepared for resin re-manufacturing

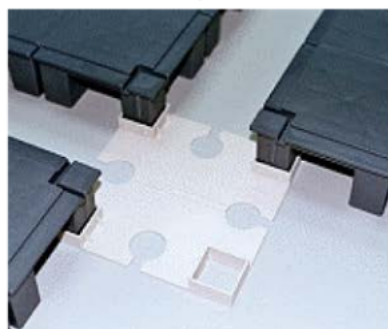
Interlocking configuration, low labor costs

The system consists of 4 main components: UniPanel (main panel), Base Connector, Central Cap, and Flank Cap. During installation, UniPanels are connected by Base Connectors, which automatically form 90 mm wide, grid-pattern Cable Trenches. Steel Cable Trench Caps (Central Cap and Flank Cap) are easily installed, by hand, to cover the Cable Trenches. The Cable Trench Caps are designed to seat firmly on the UniPanel, and protect cables running inside the Cable Trenches that can be easily removed for complete accessibility.

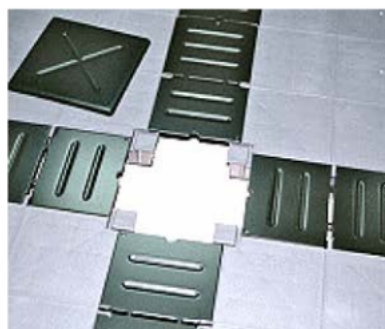
All main components: UniPanel, Cable Trench Cap, Base Connector are interchangeable.



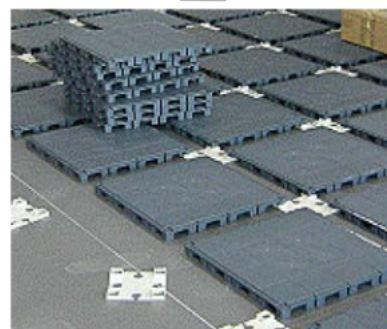
The UniPanel is composed of 16 sub-panels, 64 built-in pedestals, self-standing and has a 10 times higher Uniform Loading rating than traditional raised access floor



4-way base Connector to connect corner pedestals of the UniPanel to automatically form grid-pattern of Cable Trenches



Central Cap and Flank Cap are fully accessible, and inter-changeable. Users can lift the caps easily without using special tools



Continuous interlocking process to lay UniPanels on the floor. It follows the floor contour with no leveling required

Benefits

Retain maximum ceiling height

The ECO series comes in 3 fixed heights at 40 mm, 50 mm, and 60 mm. The unique grid-pattern cable trench system is superb at providing high capacity for cables running inside the trenches, while maintaining the low-profile heights.

	System Height	Cable Trench Width	Cable Trench Clearance
CA-600R	60 mm (2.36")	90 mm (3.54")	55 mm (2.16")
CA-500R	50 mm (1.97")	90 mm (3.54")	45 mm (1.77")
CA-400R	40 mm (1.57")	90 mm (3.54")	35 mm (1.37")

Quick Installation, Less Interference

Installation is quick and easy, whether performed by a NetfloorUSA or in-house installers. If renovating, installation may be done room by room or area by area to minimize interference in normal office operation. Full height dry wall or de-mountable partition can be erected on top of the system without interrupting cable distribution.

Cost Effective

Labor saving: only 1/2 - 2/3 the installation time compared to conventional raised floor. One installer can complete 70 to 90 sq. meters (750 - 950 SF) per working day.

Low initial cost: Save an average of 2/3 material and labor costs when comparing to traditional raised access floor.

Low maintenance costs: Maintenance costs of the ECO series are almost nonexistent

100 % reusable

In case of renovation or re-location, all main components, with the exception of the sound attenuation blanket, can be easily removed, and are 100 % reusable.

User Friendly

Accessibility

Cables are free to extend and connect to open office low partitions, full partitions, workstations, and desktops, just by replacing the Flank Cap with Exit-Cap (Flank Cap with 60 mm diameter opening). Lifting and replacing of Trench Caps are very easy, either by hand and/or screw driver, without needing special tools or a call to floor or cabling contractor.



Walls, partitions and fixtures can be built directly on top of the floor system without interrupting the cables under the floor.

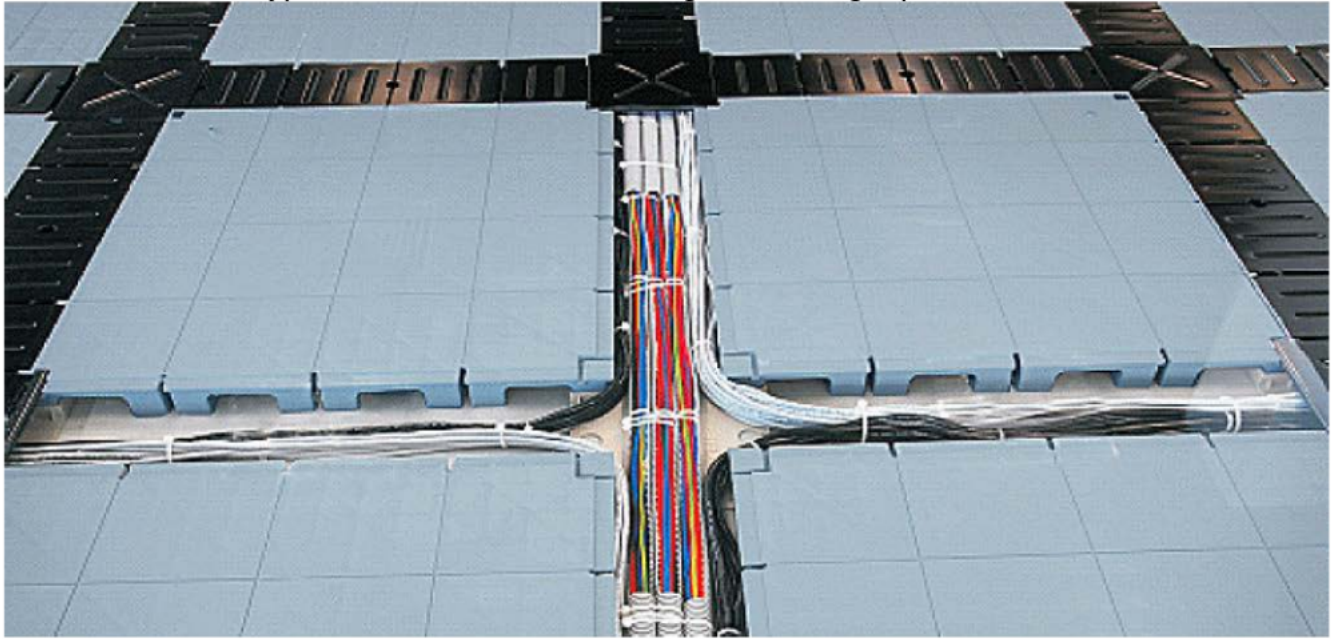


Full height partition erected on top by fastening floor track onto UniPanel by < 12 mm length wafer-head screw



Half-height partition on ECO series Power, data, voice cables distributing under the floor: efficient and limitless configurations.

Accommodate all types of workstations, half-height / full-height partitions and fixtures



1. Routing cables from any point of Cable Trench to extend through Exit-Cap to extend to partition, wall base, desk top, or workstation.



Cable extend through Exit-Cap and grommet



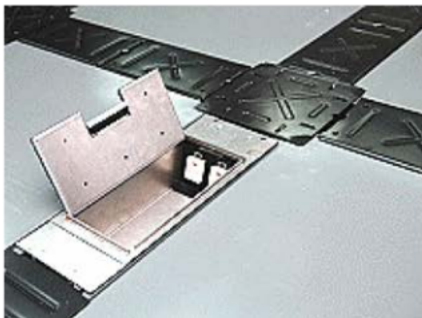
Extension through Exit-Cap to desk top or workstation



Extension through Exit-Cap to full or half height partition

2. Through floor box at any point of Cable Trench

To extend cables connecting to service boxes installed at Cable Trenches by just replacing the Flank Cap.



SE603-TW In-Trench Cable Box



SE603-BS Alt. Voltage Elec. Box



Steel lid topped by carpet

SE603 / SE403 floor box consists of steel mounting lid and galvanized steel base, with 2 power sockets and a face plate for 3 data/voice jacks. Alternate jack configurations available.

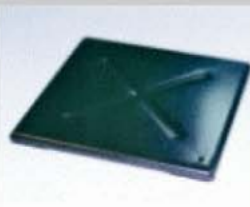
Main Components



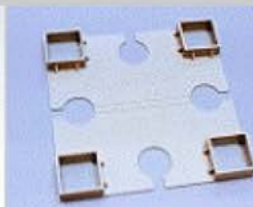
UniPanel (main panel)
CA-611R: 60 mm high
CA-511R: 50 mm high
CA-411R: 40 mm high
 Size: 510 mm x 510 mm



Flank Cap
AD613
 Thickness: 2.3 mm
 Size: 223 mm x 125 mm



Central Cap
CA414
 Thickness: 2.3 mm
 Size: 148 X 148 mm



Base Connector
CA-415 / AD615
 Size: 169 mm X 169 mm



Sound Attenuation Blanket
AD-331
 2 mm thick PU foam, 1 meter width

Accessories and floor boxes



Ramp
AD625: 60 mm high
AD525: 50 mm high
CA425: 40 mm high



Free Standing Edge Rail
AD621: 60 mm high
AD521: 50 mm high
CA421: 40 mm high



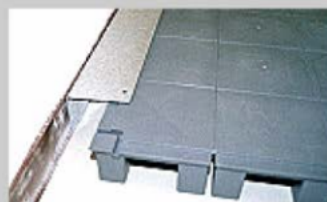
Ramp Threshold Rail AD326



Ramps meet ADA regulations.
 1:12 and 1:20 slopes available.
 Available in straight, angled and curved.



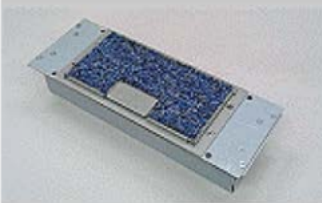
Starting Cap CA428 for uniform, finished look at the beginning and at the end of cable trench rows



Edge Rail for perimeter installation at residual less than 70 mm, without cutting UniPanel



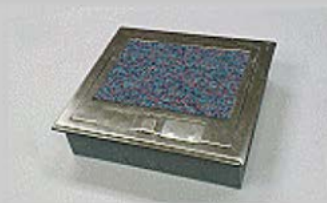
Exit-Cap & Grommet
AD613D6 & AD-518
 Exit-cap is same size as Flank Cap, with 60 mm opening



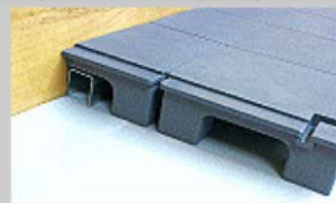
SE603 H:60mm
SE403 H:40mm
 lid: steel
 2 power, and
 3 data jacks faceplates



SS603 H:60mm
SS403 H:40mm
 lid: stainless steel
 2 power, and
 3 data jacks faceplates



SS60 H:60mm
 box base size: 252 x 220 mm
 lid: stainless steel
 4 power, and
 6 data jacks faceplates



UniPanel Supporter to support UniPanel regardless of panel cut length when trimming out

Specifications

ECO series consists of **UniPanel** (main panel), **Base Connector**, **Central Cap**, **Flank Cap**, **Ramp**, **Sound Attenuation Blanket** and all necessary accessories. ECO is suitable for used in general office, command-control, retail buildings and schools, except areas designed for fire escape or lifts.

Module Section: 600 mm x 600 mm (24" x 24")

System	CA-600R	CA-500R	CA-400R
Height	60 mm (2.36")	50 mm (1.97")	40 mm (1.57")
Cable Trench width	90 mm (3.54")	90 mm (3.54")	90 mm (3.54")
Cable Trench Clearance	55 mm (2.16")	45 mm (1.77")	35 mm (1.37")
System Weight	14.5 kg/m ²	14.0 kg/m ²	13.5 kg/m ²

Main Components:

UniPanel: made of fire retardant, recycled polypropylene

CA611R: size 510 x 510 x 60 mm (20.08" x 20.08" x 2.36")

CA511R: size 510 x 510 x 50 mm (20.08" x 20.08" x 1.97")

CA411R: size 510 x 510 x 40 mm (20.08" x 20.08" x 1.57")

Base Connector:

Size 169 mm X 169 mm X 15 mm (6.65" X 6.65" X 0.59")

Made of recycled polycarbonate plus ABS

Central Cap: Size 148 mm X 148 mm (5.82" X 5.82")

2.3 mm (0.09") thick steel, re-enforced ribs

corrosion resistance treatment by electro-deposition, black

Flank Cap: Size 223 mm X 119.7 mm (8.78" X 4.71")

2.3 mm (0.09") thick steel, re-enforced ribs

corrosion resistance treatment by electro-deposition, black

Sound Attenuation Blanket: 2.0 mm (0.08") thickness

Accessories

Ramp, **Starting Cap**, **Edge Rail**, **Alum. Ramp Rail**, **Alum. Fre Standing**, **Exit-Cap**, **Edge Trimmer**, etc., to support quick and efficient installation at perimeters

Surface floor covering: on top of ECO series

Commercial carpet tile: such as Milliken, Interface, Burmatex, ...

Commercial rate vinyl tile: thickness > 4.0 mm

Hard floorings such as marble, granite, wood, are not suitable for installation on top of ECO seires system.

Performance

Fire Ratings

UniPanel:

Meet NFPA 253 Class A rating as tested in accordance with ASTM E-648 Critical Radiant Flux.

Meets UL 94 V-2

Meet BS 476, Part 7, B2

Concentration Load:

Tested in accordance with ASTM-E196 (2" plate)

UniPanel CA611R: 400 kg < 2.5 mm depression

UniPanel CA511R: 360 kg < 2.5 mm depression

UniPanel CA411R: 360 kg < 2.5 mm depression

Central Cap: 300 kg < 2.0 mm depression

Flank Cap: 300 kg < 2.0 mm depression

Concentration Ultimate Load:

UniPanel CA611R: >700 kg (1.540 LB)

UniPanel CA511R: >600 kg (1.320 LB)

UniPanel CA411R: >600 kg (1.320 LB)

Uniform Ultimate Load:

UniPanel CA611R: >200 psi

UniPanel CA511R: >150 psi

UniPanel CA411R: >150 psi

Warranty: 5 years warranty (except when product is subject to abuse, negligence, abnormal use and not is compliance with NetfloorUSA's installation instruction).

In pursuit of quality improvement, the manufacturer reserves the rights to change specifications without prior notice.

Patents granted -

USA: Invention Patent No. 5.630.300

Japan: Utility Model No. 3032638

Germany: Utility Model No. 29520105.5

U.K. Invention Patent No. 2309042

Australia: Invention Patent No. 679415

France: Invention Patent No. 97 99 255

China: Utility Model No. ZL 02 2 91689X

Taiwan: Invention Patent No. 127700

South Africa: Invention Patent No. 97/020

Patent pending: All other industrial nations

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CERTIFICATE NO. 05060

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